- 1. A device for measuring the tension in stressed cables, said device comprising:
- a frame having a pair of ends adapted to engage a said stressed cable;
- $^{\lambda}$ a jack mounted on said frame between its ends for applying a force on the stressed cable; and
- a measuring means on said frame, for measuring the deflection of the stressed cable.
- 2. A device as defined in Claim 1 further comprising a hook means, said hook connected to said jack and adapted for engagement with said stressed cable.
- 3. A device as defined in Claim 2 wherein the force of said jack is applied to the stressed cable through said hook means.
- 4. A device as defined in Claim 1 wherein the jack is a hydraulic jack.
- 5. A device as defined in Claim 1 wherein the jack applies a pre-set force to the stressed cable.
- 6. A device as defined in Claim 1 wherein said measuring means includes a gauge mounted onto said frame.
- 7. A device as defined in Claim 1 wherein the frame is in the shape of a "V".

5

8. A method of detecting the amount of tension in a stressed cable, said method including the following steps:

supporting the stressed cable at a selected pair of spaced apart points;

applying a force to the stressed cable sufficient to deflect the cable relative to said supported points; and

measuring the deflection of the stressed cable.

- 9. A method as defined in Claim 7 wherein the force that is applied to the stressed cable is a known force.
- 10. A method as defined in Claim 7 wherein the amount of deflection is used to calculate the amount of stress in the stressed cable, by applying the following equation:

$$T = \frac{F}{-}$$
 where $\theta = \tan^{-1} \frac{\Delta}{-}$ $L/2$

wherein the variable "L" refers to the distance between the spaced apart point, " Δ " refers to the deflection, and " θ " refers to the angle of deflection.

- 11. A device as defined in Claim 2 wherein the jack is a hydraulic jack.
- 12. A device as defined in Claim 2 wherein the jack applies a pre-set force to the stressed cable.
- 13. A device as defined in Claim 2 wherein said measuring means includes a gauge mounted onto said frame.

- 14. A device as defined in Claim 2 wherein the frame is in the shape of a "V".
- 15. A device as defined in Claim 3 wherein the jack is a hydraulic jack.
- 16. A device as defined in Claim 3 wherein the jack applies a pre-set force to the stressed cable.
- 17. A device as defined in Claim 3 wherein said measuring means includes a gauge mounted onto said frame.
- 18. A device as defined in Claim 3 wherein the frame is in the shape of a "V".